

Exhibit 3: Emboss Align (Nucleic Acid) Alignment

SEQ147	401	cgacgataaaagagccgagtgttcagagtgggtgtgaacgttccaaaggag 	450
T_petrophila	401	cgacgataaaagagccgagtgttcagagtgggtgtgaacgttccaaaggag 	450
SEQ147	451	ttagcagatctcgtaaaagagaaaataggagatctctggaggaacttcc 	500
T_petrophila	451	ttagcagatctcgtaaaagagaaaataggcgatttctggaggaacttcc 	500
SEQ147	501	acttcttgagagagacttcaaaacggctctcgaaggcttacaaacttggtg . .	550
T_petrophila	501	acttcttgagagagacttcaaaacggcttgcgaaggcttacaaacttggtg . .	550
SEQ147	551	cggaaaaactttctggattgttgcggaaatctcaagttttggagacggaa 	600
T_petrophila	551	cggaaaaactttctggattgttgcggaaatctcaagttttggagacggaa 	600
SEQ147	601	aaactcttggaaaaagggtcccccggatctcaaggttatctcgcatg 	650
T_petrophila	601	aaactcttggaaaaagggtcccccggatctcaaggttatctcgcatg 	650
SEQ147	651	tagggagcttctggagagatttcaaggttgcggatctcgcatg 	700
T_petrophila	651	tagggagcttctggagagatttcaaggttgcggatctcgcatg 	700
SEQ147	701	cgcttttgcgttgcggatctcgcatg 	750
T_petrophila	701	cgcttttgcgttgcggatctcgcatg 	750
SEQ147	751	ttgatccagagactgacaagaatcattctccacggaaaacacatggaaag 	800
T_petrophila	751	ttgatccagagactgacaagaatcattctccacggaaaacacatggaaag 	800
SEQ147	801	cgttgaagatcaaaaaagggtgtttctcgattcaattctcgagggtga 	850
T_petrophila	801	cgttgaagatcaaaaaagggtgtttctcgattcaattctcgagggtga 	850
SEQ147	851	agatagcgaatctgaacaacaaactcactctgtatgcacatcctcgcgata 	900
T_petrophila	851	aaatagcgaatctgaacaacaaactcactctgtatgcacatcctcgcgata 	900
SEQ147	901	cacagagagagaaagagagagggtgtcaacgcttggagc 	936
T_petrophila	901	cacagagagagaaagagagagggtgtcaacgcttggagctga 	939